



People Saving People

National Center for Statistics & Analysis



DATA REPORT of the INTEGRATED PROJECT TEAM

May 12, 2004

Joseph S. Carra, Ph.D., Director



People Saving People

THE GOAL

National Center for Statistics & Analysis



- **Better data are absolutely essential to reducing the terrible human and economic cost of motor vehicle crashes.**

THE DATA INTEGRATED PROJECT TEAM

National Center for Statistics & Analysis



- Created in September 2003 by NHTSA.
- Task
 - ◆ Recommend priorities for improving traffic safety data to the Administrator.



People Saving People

DATA IPT MEMBERS

National Center for Statistics & Analysis



- Representatives from NHTSA,
 - ◆ NCSA: users, collectors
 - ◆ ICOR, the NHTSA Regions
 - ◆ Vehicle, ODI
 - ◆ Research, P&P, PDD
- Representatives from FHWA, FMCSA, BTS



People Saving People

JUSTIFICATION for IPT

National Center for Statistics & Analysis



➤ To achieve its safety goals, DOT needs data that indicate:

- ◆ What works
- ◆ What doesn't work
- ◆ What progress is being made
- ◆ What still needs to be done

DATA IPT: SCOPE

National Center for Statistics & Analysis



- Focus only on routinely collected and accessible data including:
 - ◆ Motor vehicle crash and non-crash related events
 - ◆ Traffic safety events related to enforcement and prevention
 - ◆ Roadway inventory and exposure data



People Saving People

National Center for Statistics & Analysis



A VISION OF THE FUTURE FOR TRAFFIC SAFETY DATA



People Saving People

NEED FOR A VISION

National Center for Statistics & Analysis



- **Understand Where We Should Go**
- **Identify Important Milestones Along the Way**
- **Stay Focused Over Time**
- **Know When the Vision Has Been Achieved**

CONSIDERATIONS FOR THE VISION

National Center for Statistics & Analysis



- Uniform data must be collected, edited, integrated, and transferred electronically.
 - ◆ Enable tracking of a traffic safety event in a timely manner.

APPLYING THE VISION TO THE CRASH EVENT

National Center for Statistics & Analysis



➤ Data Will be Collected Electronically

◆ Pre-Crash

- Electronic driver alerts

◆ Crash

- EDR and Automatic crash notification to 911
 - Latitude and longitude, changes in vehicle speed, principal direction of force
 - Medical urgency algorithm for medical severity



People Saving People

APPLYING THE VISION TO THE CRASH EVENT

National Center for Statistics & Analysis



➤ **Data Collected Electronically (cont)**

◆ **Post-Crash**

- **Infrared or smart card technology captures VIN, licensing and registration information using a handheld device.**
- **Automatic capture of case number, date, time, and GPS location.**



People Saving People

APPLYING THE VISION TO Other Events

National Center for Statistics & Analysis



➤ **Described in the Report**

- ◆ **Traffic stop**
- ◆ **Driver licensing**
- ◆ **Vehicle registration**
- ◆ **Citation and adjudication**



People Saving People

THE PROBLEM

National Center for Statistics & Analysis





People Saving People

National Center for Statistics & Analysis



BARRIERS MUST BE ELIMINATED FOR TRAFFIC SAFETY DATA TO IMPROVE

Institutional Barriers

Lack of Focus

Lack of Resources



People Saving People

STRATEGY for IMPROVEMENT

National Center for Statistics & Analysis



- Focus on improving the collection and transfer of data generated or used during a traffic safety event:
 - ◆ Crash
 - ◆ Traffic stop
 - ◆ Driver licensing
 - ◆ Vehicle registration
 - ◆ Citation and adjudication

CONSISTENT THEMES EXPRESSED BY STAKEHOLDERS

National Center for Statistics & Analysis



- While stakeholders raised many different issues, the following six themes were raised consistently:
 - ◆ Pre-crash Conditions
 - ◆ Event Data Recorder
 - ◆ Location Data
 - ◆ Sample Size
 - ◆ Access and Usability
 - ◆ Timeliness



People Saving People

GAPS IN THE FEDERAL DATA

National Center for Statistics & Analysis



➤ **Different Causes:**

- ◆ **No data are collected**
- ◆ **Data collected but:**
 - **Content is incomplete, or**
 - **Sample size is insufficient, or**
 - **Data quality is unreliable.**
- ◆ **Different gaps interact**
 - **Sufficient sample size collected but missing data results in insufficient sample.**



People Saving People

FEDERAL DATA NEEDS

National Center for Statistics & Analysis



- **Motor vehicle crash causation data**
- **Uniform EDR data and interface device.**
- **GPS Latitude and Longitude implemented to indicate exact location.**

FEDERAL DATA NEEDS (cont'd)

National Center for Statistics & Analysis



- Larger NASS-CDS sample size.
- Continuation of data initiatives that make access more user-friendly.
- Timely data to meet users needs.

OTHER FEDERAL DATA NEEDS

National Center for Statistics & Analysis



- **Complete, accurate BAC data for FARS.**
- **Information about:**
 - ◆ **Non-crash motor vehicle-related injury and fatalities.**
 - ◆ **Fatal crash-involved vehicles that are off the roadway.**



People Saving People

THE DATA IPT REPORT

National Center for Statistics & Analysis



- **A Vision for Traffic Safety Data**
- **General Problem Identification for Traffic Safety Data**
- **Recommendations**
 - ◆ **State Data**
 - **Actions at the state level**
 - **Actions at the federal level**
 - ◆ **Federal Data**
 - **Actions at the federal level**

